

## AIM-1 OLIGONUCLEOTIDES

-Oligonucleotide primers used during Long Distance Inverse PCR -Oligo's bind to regions of AIM-1 (Mungbean ACC Synthase).

## NSE-1

5' -GCGGAT<sup>1</sup>CCATCTTGGACAACAAGGGAGTT- 3' 29'omer
Tm = 68

#### NSE-2

5'-TAGGATC¹CAGAAAGACACTGAGAACCGTGG- 3' 5'
30'omer
Tm = 70

## NSE-3

5' -ACGGATCC GGTGTATGTGGTTAGAGTGTG- 3' 29'omer
Tm = 62

## NSE-4

5' -CAGGATC<sup>1</sup>CAGACATAGAGTGTGACCGCAA- 3' 29'omer Tm = 66

#### NSF'S

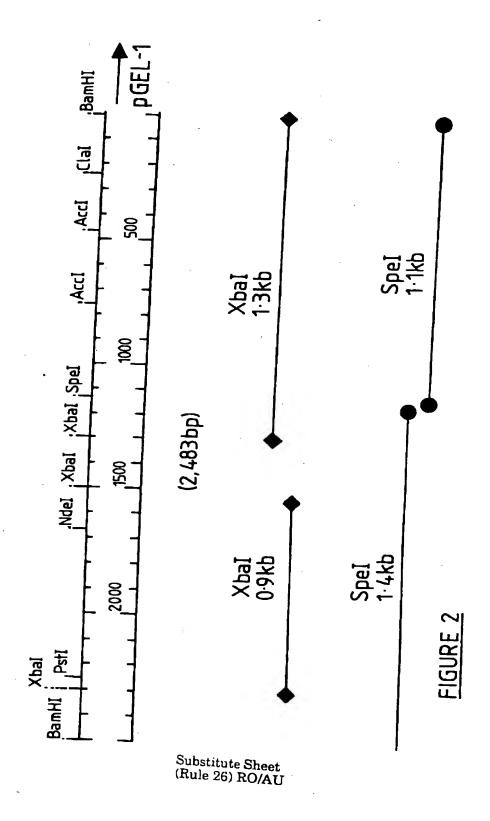
5'-ATCGATCATATGAGCTCTAGACCCGGGCTGCAGGATCC GGTGTATGTGGTTAGAGTGTG- 3'
59'omer
Tm = 62
note: NSE-5 is identical to NSE-3 except different restriction enzyme sites have been incompared.

note: NSE-5 is identical to NSE-3 except different restriction enzyme sites have been incorporated (ie. 5'-Cla I, Nde I, Sac I, Xba I, Sma I, Pst I & Barn H1-3')

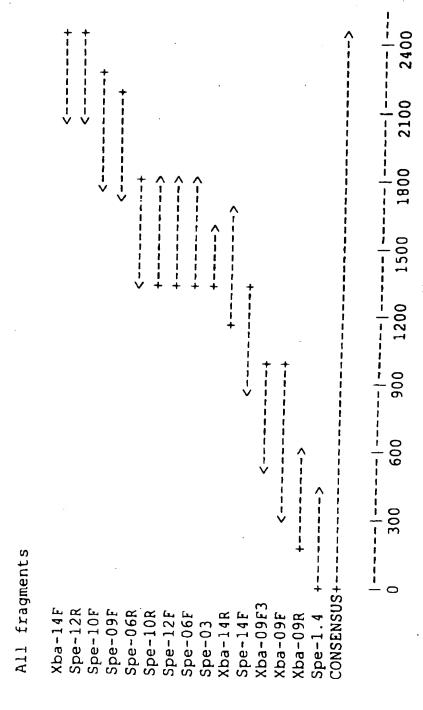
#### NSE-6

note: NSE-6 is identical to NSE-4 except different restriction enzyme sites have been incorporated (ie. 5'-Sac II, Bgl II, Cla I, Xho I, Eco R1, & Hind III-3')

## FIGURE 1



pGEL-1 2.5Kb promoter sequencing strategy:



FIGUR

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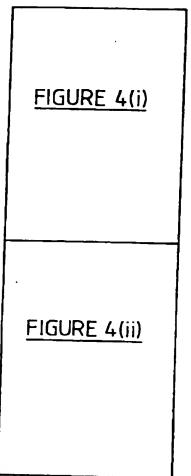


FIGURE 4

pGEL-1 2.5Kb Promoter Fragment 5/28

Length: 2470

TTACAGATAC ACAGAATCAG ACGACACATC TACTTTAATA ACAGAAAAAT 1 AATAAGTGTC GGAGATTATG GTACGACAAG ATGAAATGTT TTTATATGGT TGAGATTATT TTGGTCTGTT GTTGGAAGTT TCACGAATCA TGATTTTGAT 101 TTTACGTATT AAAAAATGAA AAGTTGAATC ATGCATTTTA TCTAGAAGCT 151 GGGAACTGAA CCAAAAAAAT AGCCAGTTGA ACAACTGCAG TATTTGTAGG 201 CGTATTCATT TCTCCTTTCC TACAATAATC CTTGGTTGCT CTTTATCGGA 251 AAAAAACCAA AAGCAATAGC TACTCTGTAA GGTCCTCGAT TGCCGACAAG 301 AACATCACAT GCGTGCTGTC GAAGAACACA TAATTTTGAG GTTGAAGCTC 351 ACGTGCGAGT TTTGCATATT TTTAGGTTAT GTGTACACGT ATGGAGTGAG 401 TTCCGCGTAT ATAGTGTAGG TAGTTGAGTG GCTGAGTAGC GAGTGAATCA 451 501 GGTAACACTA TCTTTTCAAG CCACCTAATT AAGGGATTTA ATGTTCATGC AACTGTTCTT CGCTAACTAA GGCCCCACTT ACCTTTATAA TATTCTCTCT 551 AACTCCGGGC TTTTGGTAAG TACAACTTTT CTACTCTTAT TTAATGGAGG 601 GATTATTTTT TCCATATACC AATTAATTTA TTTTTTAATT TATGCATTTT 651 GATCTTATAT TAAAACAATT ATGGTATGGA TTAAGTCGTA TATCGGTGAC 701 AATTGAAGTT TTCCTCAAGT TTAGCCATTT TTATGAAATT AAACTTAATC 751 ACTACTATTA GGTAAATTCA TATGTATCAT TAACAATTTC AATGTGAGTT 801 CAATTTTACC CAAGATTTGA AAGTTGTTGT CAACTTCTGT TAACTAAAGT 851 TGTATTATAA GGTTGACGAC TTTAACCTAA ATCTATTTTG AATTGAAGGG 901 GTTGATGACT TCAGCTTTAA AATAATTCAA CTAAAGTTCT AGACTACATT 951 1001 GGAGATTTTA GTGTTCATAA AATTTTAGAA AAAGGCTGAG TTAAAGTTAT GAAAAAGATT GGTGACTATT CAATTAATTA GTTGTGAATT GATGACAAAT 1051 1101 ATTTCATGAG CATAACCAAT CAGAGAAATA CCACCTCGAC CGACTACAAC AATCTCAATG TTAATTAATG AAGCATTGTA GTATAAGGAG TCTAGAATAA 1151 ATTTCTTAAA TATTAGAGGA AAACTATTTT TAAAAAATTA CAAGAAAAGT 1201 TTGATCTATA ACCTCTTTAA ACTTTAAATT ATCTAACAAT TTTCTTATGA 1251 FIGURE 4(i)

Substitute Sheet (Rule 26) RO/AU

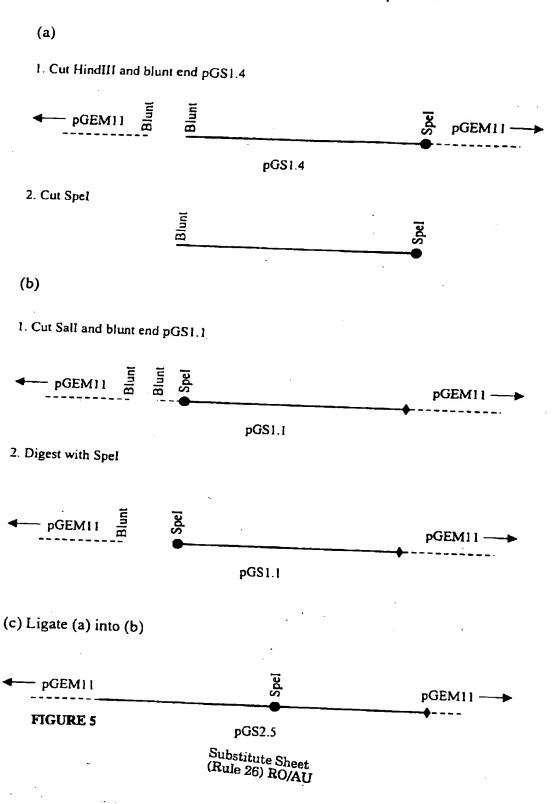
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CTCACATTGT GTTGATAGGG TGATTTTGTC AAAATATATG TCTATTTTAT 1301 ACTAGTATGA TTTGTCTGCG AATTATATAT AGTATTAACT TGGAGAAATG 1351 ATTGCCTAAT AAGTTATAAA AAAGGAGAAA ATATTTATTC ATAAAAAAAA 1401 TACACTTAAA TAAGTAACAA TAATAAAAAA CATTATAAA GAGATTAAGA 1451 1501 TAAAATATTC AAATAATATT CAAAGTAAAT AATAGATATA ATTCATCATT 1551 CAATACGAGT AATTCAATCT ATTATAATCC ATATATTAGA TAAATATACA 1601 AATATTTGTT AAATTTTACA TTATTATATT ACTAAATATA TATTAATTTC 1651 1701 CCCGTATATT TGTAGATGTT AAATGTAACG GGCTTAGACT GATGTTTTTG 1751 TATTATATTA TTTATAAATC CATTAGAGAT TTAAGTTAAT GTCTCTCTTT 1801 GATTTTAAAC ATGGTCTAAA AATTAGGTTT AATCATTGCG TCCTCAATGA 1851 ACCCATGCTA TATGTTTTAA AGTTTTTTGT TTTTTGACAA TGTTTTTAT 1901 TTCTGAGATT GCTCTTAGGA TTGAAATTAT GTTTGATACT AGAAAACGAA 1951 GAAGTAGAGA GTAGTGTATA CACGTGTAAA AAATAATAGT TGTGGGAACT 2001 TAAGTTGGAT TTGAATACTA GGACGAGGCT GGAAGGGTTT CCACTAAGTT 2051 GACAAAAATT ATTACAAGTG GCAACTAGCT AGGTCTCACA AAGTATTACT 2101 AATTAATAGT GGGTCTGTCT GCATACCAAC TCTTGCCTAA TTTTCAAACA 2151 CCGCATTCTC TCTTCTTCTC TCCTTCTTCC TCTGGAAACT TCATCGATGT 2201 GGACTTCTGT CTCTCAAAAG TCAAGCTCAA TTTATCCAAT GCATTATAAA 2251 TACACACTCT CCCTCCCTTC TATTCTTCAT TGCATCACAT TTCCTCTATA 2301 AATTACTCAC ACCTTATTCC TAACTTCATT TCAACATCCT CTCTCCCACT 2351 TACTTCGATT TCATCAATTC CAATAAACTC AACACACTTT TTTACACTCC 2401 2451 ACACTCTAAC CACATACACC

## FIGURE 4(ii)

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# 7/28 Reconstruction of 2.5 kb pGEL-1 promoter



IGURE 6A(i)

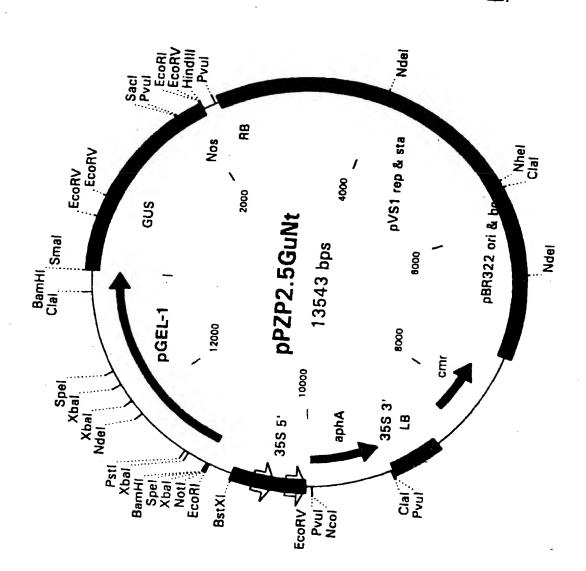
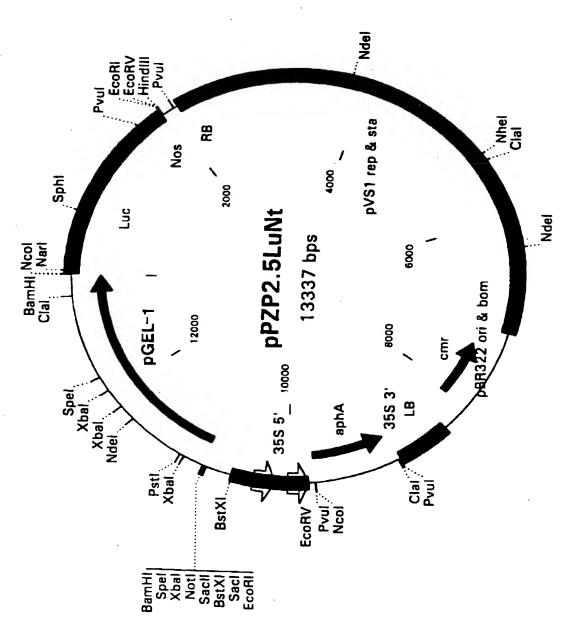
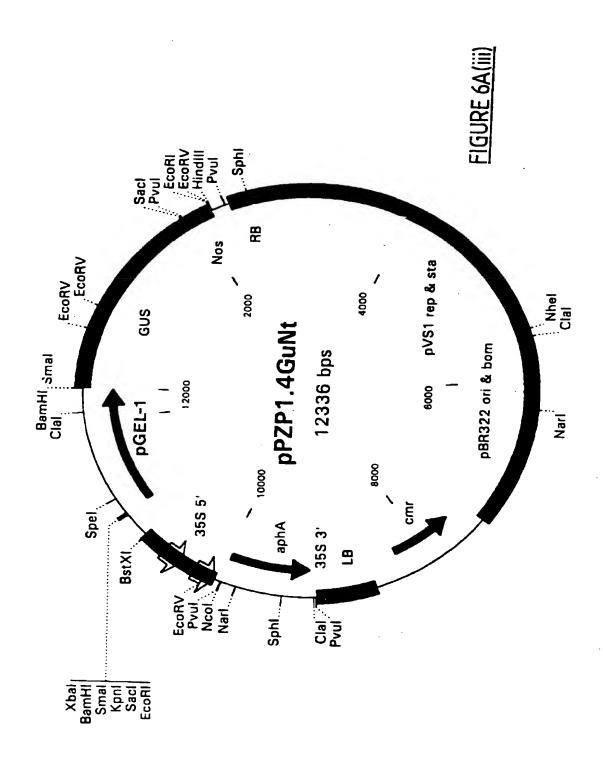
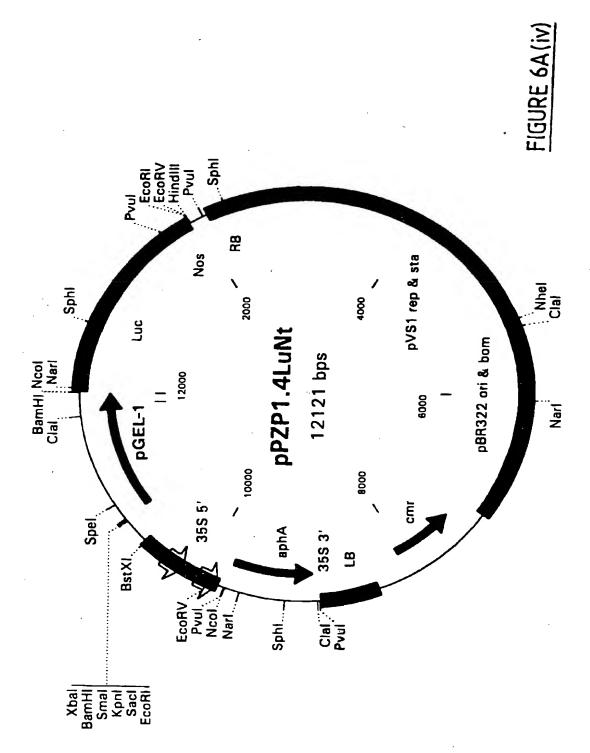


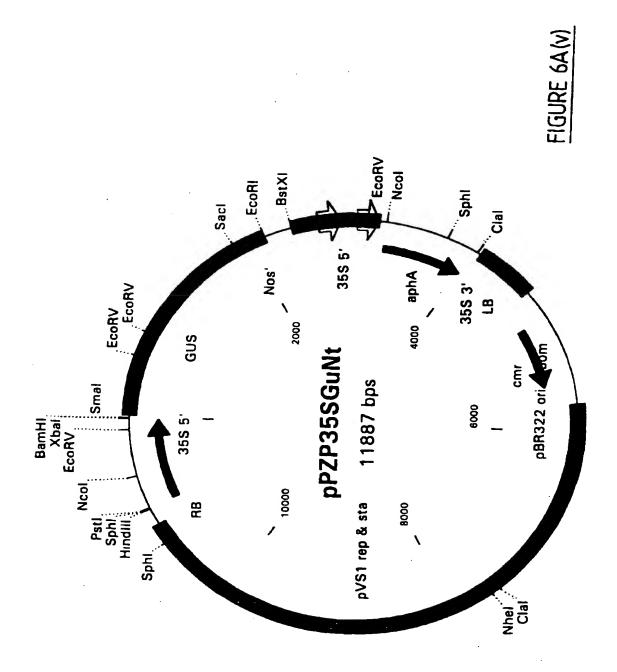
FIGURE 6A(ii)



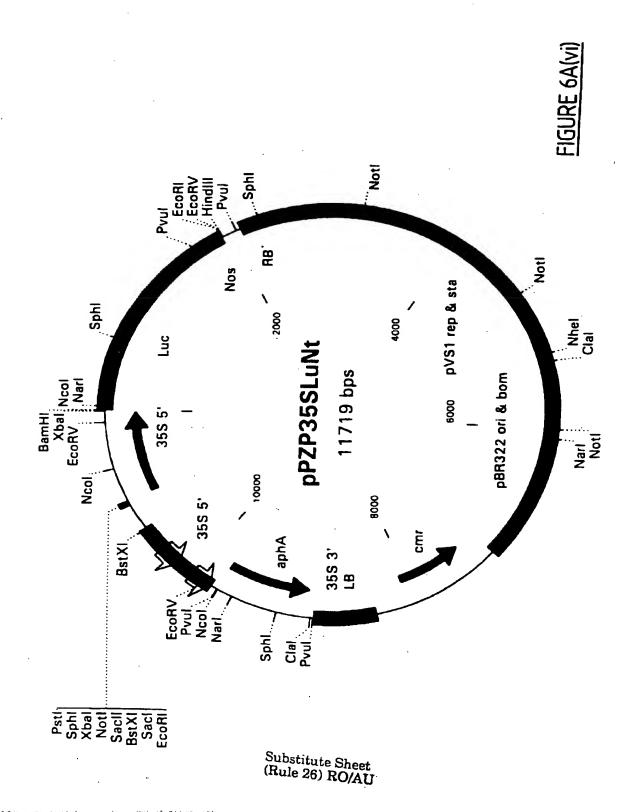




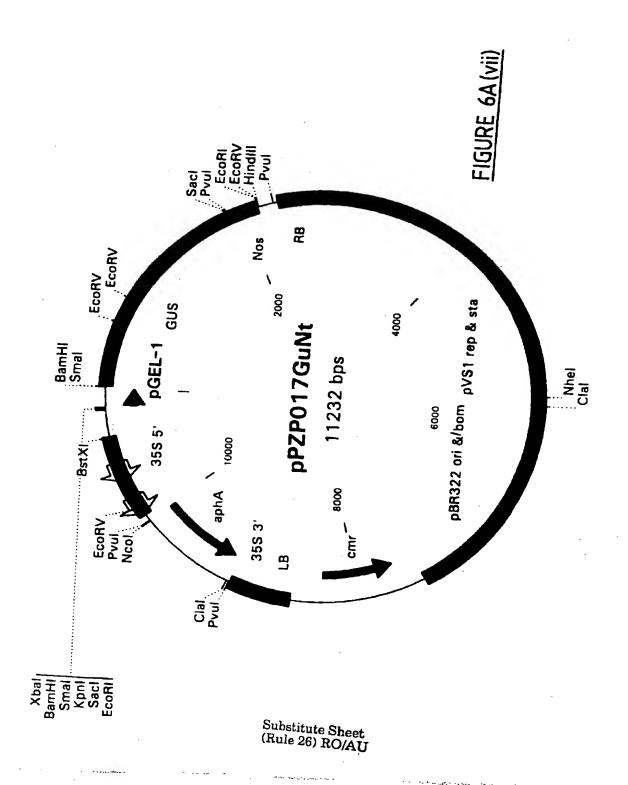
Substitute Sheet (Rule 26) RO/AU



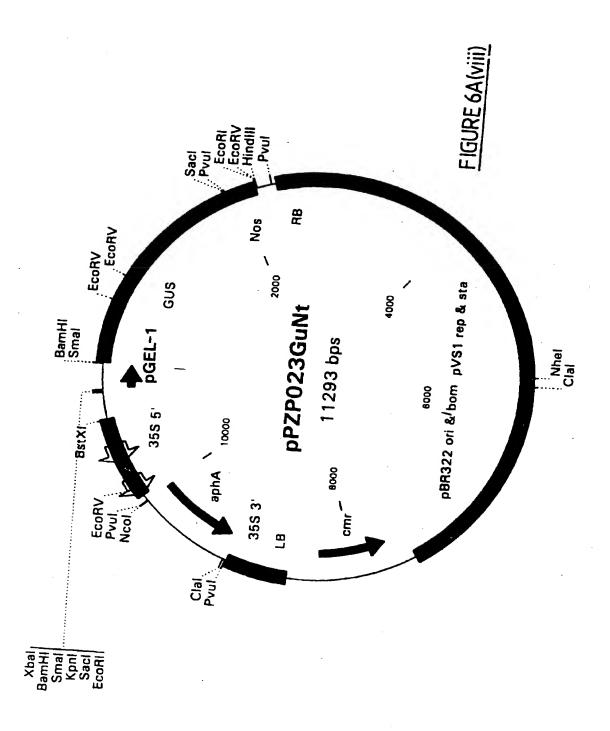
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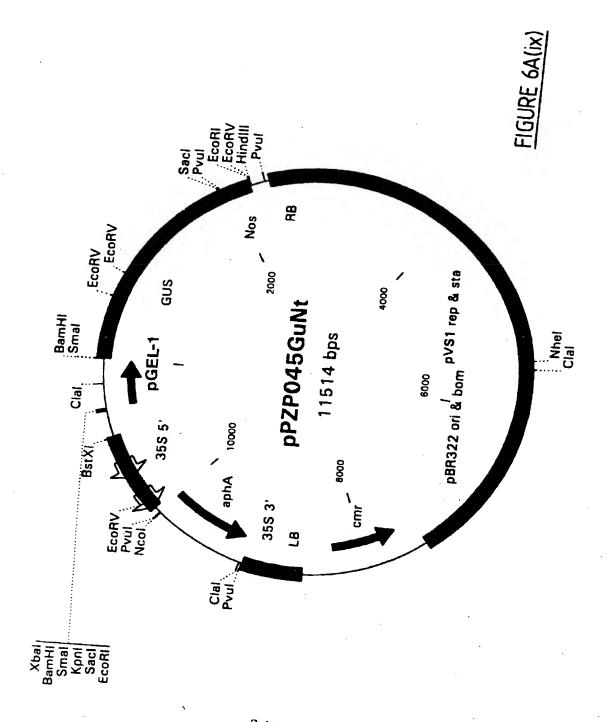


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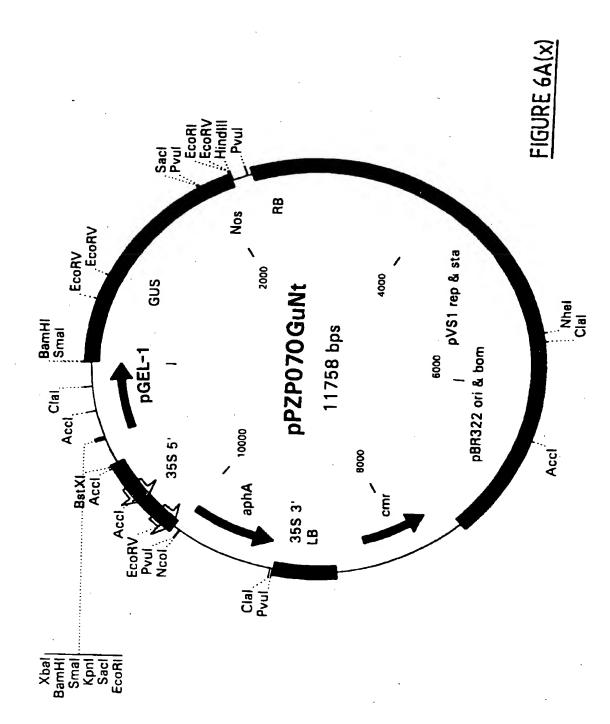


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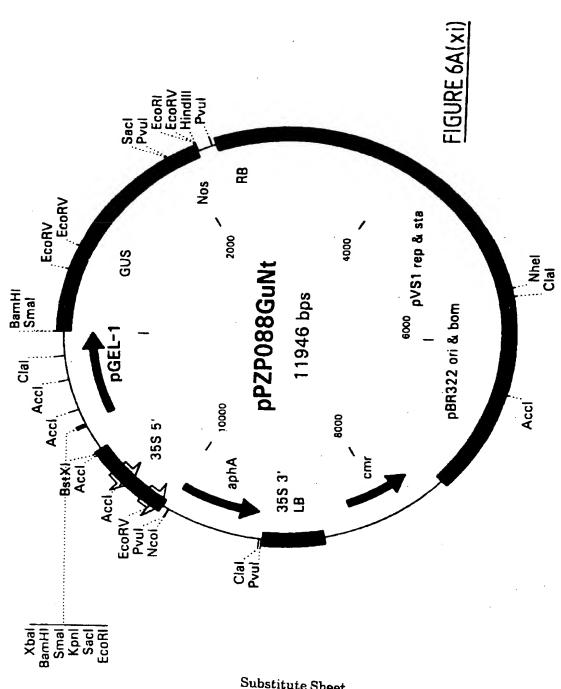


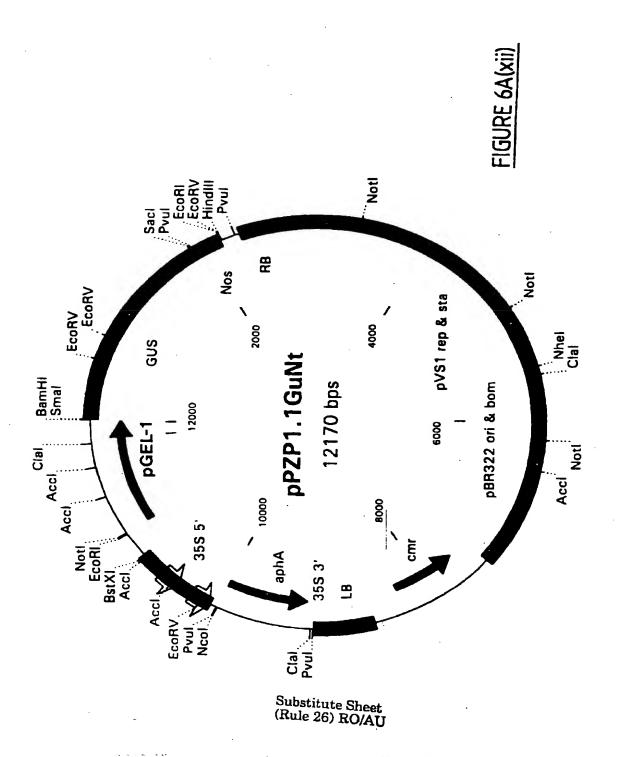


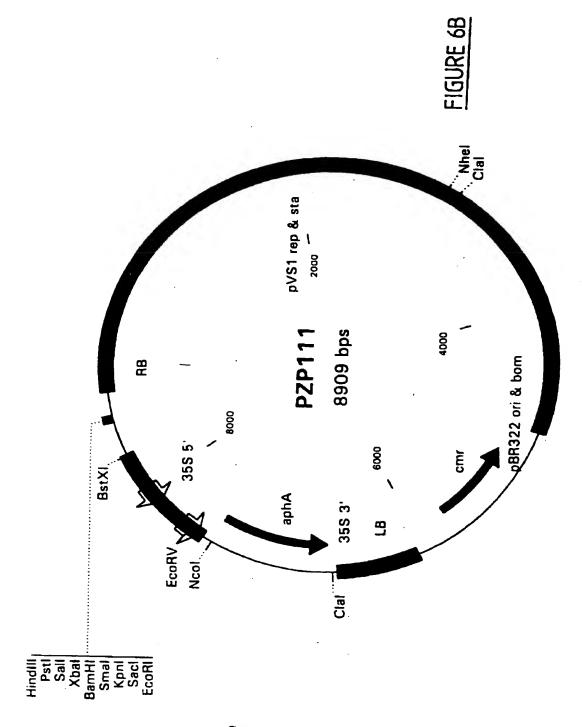
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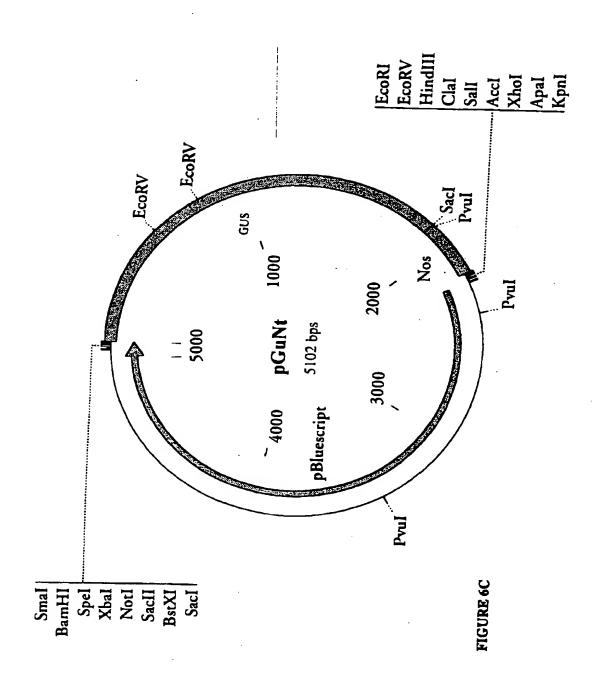
Substitute Sheet (Rule 26) RO/AU







Substitute Sheet (Rule 26) RO/AU





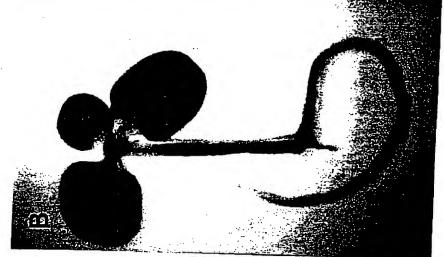
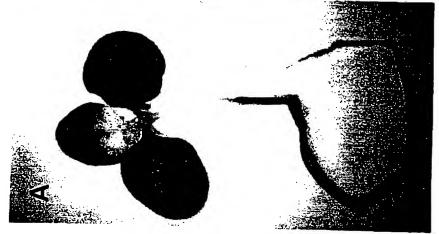
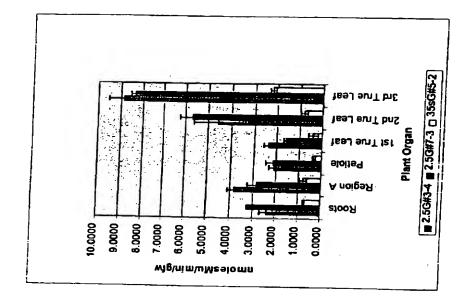


FIGURE 7

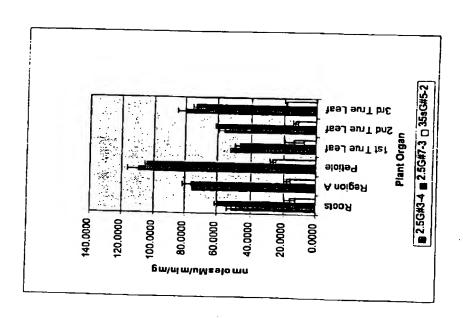


Substitute Sheet (Rule 26) RO/AU

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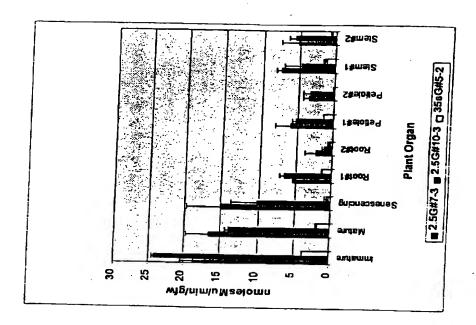
IGURE 8B



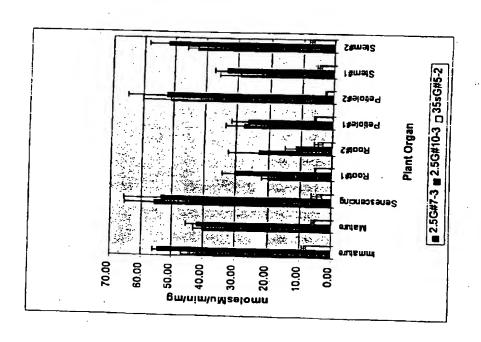
IGURE 8A

Substitute Sheet (Rule 26) RO/AU

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IGURE 9A

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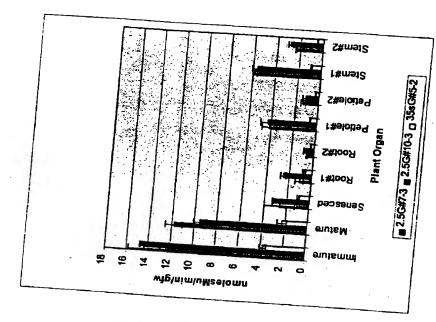
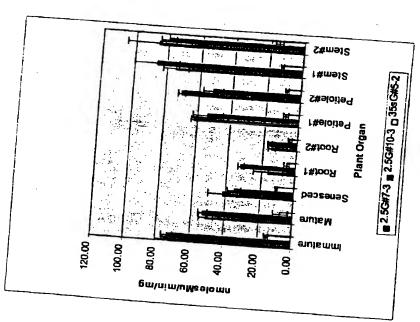
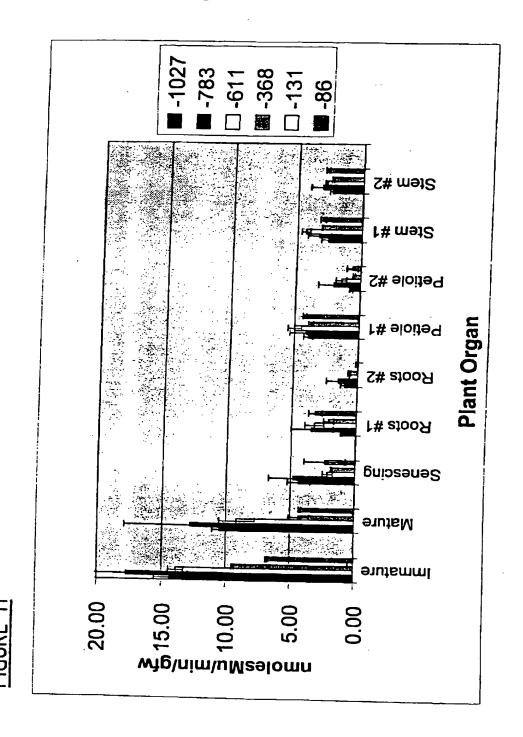


FIGURE 10B



IGURE 10A

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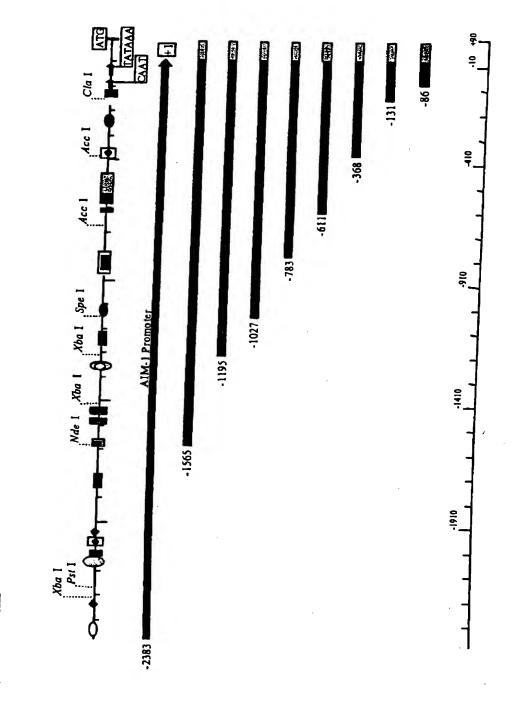


FIGURE 12

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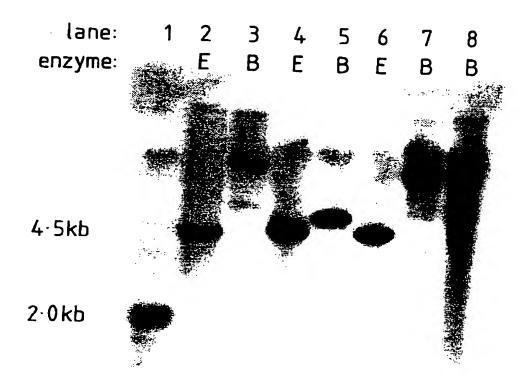


FIGURE 13